IN THE CLAIMS:

No claims have been canceled and no claims have been amended herein. All of the pending claims 1 through 18 are presented below. This listing of claims will replace all prior versions and listings of claims in the application.

- (Previously presented) A heat sink for assembly with a semiconductor device component, comprising:
- a heat transfer element configured to be secured to the semiconductor device component,

 comprising a unitary structure, and one or more passageways extending within the unitary

 structure, at least one of the one or more passageways including an internal portion

 extending along a nonlinear path.
- (Previously presented) The heat sink of claim 1, wherein at least a portion of the heat transfer element comprises a plurality of adjacent, mutually adhered regions comprising thermally conductive material.
- (Previously presented) The heat sink of claim 2, wherein the thermally conductive material comprises a metal.
- (Previously presented) The heat sink of claim 3, wherein the metal comprises copper, aluminum, tungsten, or titanium.
- (Previously presented) The heat sink of claim 2, wherein the thermally conductive material comprises a ceramic or a glass.
- (Previously presented) The heat sink of claim 1, wherein the heat transfer element comprises a plurality of particles that are secured to one another.

- (Previously presented) The heat sink of claim 6, wherein adjacent particles are sintered together.
- (Previously presented) The heat sink of claim 6, wherein adjacent particles are secured together with a binder.
- (Previously presented) The heat sink of claim 16, wherein at least some of the plurality of superimposed, contiguous, mutually adhered layers comprise sheets of the thermally conductive material.
- (Original) The heat sink of claim 9, wherein adjacent sheets are secured together with an adhesive material.
- (Original) The heat sink of claim 9, wherein adjacent sheets are thermally bonded together.
- (Previously presented) The heat sink of claim 1, wherein the at least one passageway is configured to permit airflow therethrough.
- 13. (Previously presented) The heat sink of claim 1, further comprising a heat dissipation element adjacent to the heat transfer element and extending to a location remote from the semiconductor device component.
- 14. (Previously presented) The heat sink of claim 13, wherein at least a portion of the heat dissipation element comprises a plurality of adjacent, mutually adhered regions comprising thermally conductive material.

- 15. (Previously presented) The heat sink of claim 14, wherein the heat dissipation element includes a plurality of fins.
- (Previously presented) The heat sink of claim 2, wherein the plurality of adjacent, mutually adhered regions comprises a plurality of superimposed, contiguous, mutually adhered layers.
- 17. (Previously presented) The heat sink of claim 14, wherein the plurality of adjacent, mutually adhered regions comprises a plurality of superimposed, contiguous, mutually adhered layers.
- (Previously presented) The heat sink of claim 1, wherein the internal portion comprises an annular channel.